


Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Complete if Known	
	Application Number	09/724,869
	Filing Date	November 28, 2000
	First Named Inventor	Juha Punnonen
	Group Art Unit	1627
	Examiner Name	Unassigned
	Attorney Docket Number	02-030310US
	Date Submitted	May 21, 2002

U.S. PATENT DOCUMENTS						
Examiner Initials	Cite No.	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, lines, Where Relevant Passages or Relevant Figures Appeal
		Number	Kind Code (if known)			
TW	1	5,252,714		Harris et al.	10-12-1993	
	2	5,264,563		Huse	11-23-1993	
	3	5,338,665		Schatz Et al	08-16-1994	
	4	5,348,867		Georgiou et al.	09-20-1994	
	5	5,470,725		Borriss et al.	11-28-1995	
	6	5,512,463		Georgiou et al.	09-20-1994	
	7	5,514,588		Varadaraj	05-07-1996	
	8	5,523,388		Huse	06-04-1996	
	9	5,571,698		Ladner et al.	11-05-1996	
	10	5,589,466		Felgner et al.	12-31-1996	
	11	5,593,972		Weiner et al.	01-14-1997	
	12	5,605,793		Stemmer et al	02-25-1997	
	13	5,691,170		Gritz et al.	11-25-1997	
	14	5,698,426		Huse	12-16-1997	
	15	5,703,057		Johnston et al.	12-30-1997	
	16	5,723,323		Kauffman et al.	03-03-1998	
	17	5,763,192		Kauffman et al.	06-09-1998	
	18	5,763,239		Short et al.	06-09-1998	
	19	5,770,434		Huse	06-23-1998	
	20	5,783,386		Jacobs, Jr. et al.	07-21-1998	
	21	5,789,228		Lam et al.	08-04-1998	
	22	5,808,022		Huse	09-15-1998	
✓	23	5,811,238		Stemmer et al.	09-22-1998	

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Tdw	24	5,814,473		Warren et al.	09-29-1998	
	25	5,814,476		Kauffman et al.	09-29-1998	
	26	5,817,483		Kauffman et al.	10-06-1998	
	27	5,824,469		Horwitz et al.	10-20-1998	
	28	5,824,514		Kauffman et al.	10-20-1998	
	29	5,830,696		Short	11-03-1998	
	30	5,830,721		Stemmer et al.	11-03-1998	
	31	5,834,252.		Stemmer et al	11-10-1998	
	32	5,837,458		Minshull et al.	11-17-1998	
	33	5,862,514		Kauffman et al.	10-20-1998	
	34	5,866,344		Georgiou	02-02-1999	
	35	5,866,363		Pieczenik	02-02-1999	
	36	5,871,974		Huse	02-16-1999	
	37	5,876,997		Kretz	03-02-1999	
	38	5,882,883		Egel-Mitani et al.	03-16-1999	
	39	5,925,749		Mathur, et al.	07-20-1999	
	40	5,928,905.		Stemmer et al	07-27-1999	
	41	5,939,250		Short	08-17-1999	
	42	5,939,300		Robertson, et al.	08-17-1999	
	43	5,942,430		Robertson, et al.	08-24-1999	
	44	5,948,666		Callen, et al.	09-07-1999	
	45	5,955,358		Huse	09-21-1999	
	46	5,958,672		Short	09-28-1999	
	47	5,958,751		Murphy, et al.	09-28-1999	
✓	48	5,962,258		Mathur, et al.	10-05-1999	

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<i>tdw</i>	49	5,965,408		Short	10-12-1999	
	50	5,962,283		Warren et al.	10-05-1999	
	51	5,976,862		Kauffman et al.	11-02-1999	
	52	5,985,285		Titball et al.	11-16-1999	
	53	5,985,646		Murphy, et al.	11-16-1999	
	54	5,989,553		Johnston, et al.	11-23-1999	
	55	6,001,574		Short et al.	12-14-1999	
	56	6,004,788		Short	12-21-1999	
	57	6,030,779		Short	02-29-2000	
	58	6,043,030		Beach et al.	03-28-2000	
	59	6,054,267		Short	04-25-2000	
	60	6,054,312		Lacocca et al.	04-25-2000	
	61	6,057,103		Short	12-21-1999	
	62	6,087,341		Khavari et al.	07-11-2000	
	62A	6,096,548		Stemmer	08-01-2000	
	63	6,117,679		Stemmer	9-12-2000	
	64	6,132,970		Stemmer	10-17-2000	
	65	6,153,410		Arnold et al.	11-28-2000	
	66	6,156,511		Schatz et al.	12-05-2000	
	67	6,159,687		Vind	12-12-2000	
	68	6,159,688		Borchert et al.	12-12-2000	
	69	6,165,718		Borchert et al.	12-26-2000	
	70	6,165,793		Short	12-26-2000	
	71	6,168,919		Short	01-02-2001	
<i>✓</i>	72	6,171,820		Short et al.	01-09-2001	

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TJW ↓	73	6,174,673		Short et al.	01-16-2001	
	74	6,177,263		Arnold et al.	01-23-2001	
	75	6,180,406		Stemmer et al.	01-30-2001	
	76	6,194,183		Markvardsen et al.	02-27-2001	
	77	6,238,884		Short et al.	05-29-2001	
	78	6,251,674		Tobin et al.	06-26-2001	
	79	6,261,561		Stewart, Jr. et al.	07-17-2001	
	80	6,287,861		Stemmer et al.	09-11-2001	

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Exami ner Initials	Cite No.	Foreign Patent Document			Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T
		Office	Number	Kind Code (if known)				
TJW	81	EP	0 125 228	A1	President and Fellows of Harvard College	06-15-1988		
	82	EP	0554809	B1	Ixsys, Inc.	12-16-1998		
	83	EP	0563296	B1	Ixsys, Inc.	03-17-1999		
	84	EP	0 725081	A1	Kyowa Hakko Kogyo Co., Ltd.	08-07-1996		
	85	EP	0 752008	B2	Maxygen, Inc.	02-17-1995		
	86	EP	0876509	B1	Maxygen, Inc.	09-19-2001		
	87	EP	0911396	A2	Stemmer	04-28-1999		
	88	EP	0911396	A3	Stemmer et al.	05-06-1999		
	89	EP	0934999	A1	Stemmer et al.	08-11-1999		
↓	90	WO	90/14424		Scripps Clinic and Research	11-29-1990		

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					Foundation			
<i>Tdw</i>	91	WO	90/14443		Huse	11-29-1990		
	92	WO	91/07979		Center for Innovative Technology	06-13-1991		
	93	WO	92/03461		Ixsys, Inc.	03-05-1992		
	94	WO	92/06176		Ixsys, Inc.	04-16-1992		
	95	WO	92/06204		Ixsys, Inc.	04-16-1992		
	96	WO	92/11272		Ixsys, Inc	07-09-1992		
	97	WO	93/06214		The United States of America	04-01-1993		
	98	WO	93/10214		Georgiou	05-27-1993		
	99	WO	94/06421		The University of Tennessee Research	03-31-1994		
	100	WO	94/06911		Board of Regents, The University of Texas System	03-31-1994		
	101	WO	94/11496		Ixsys, Inc.	05-26-1994		
	102	WO	94/23738	A1	Medisorb Technologies International L.P.	10-27-1994		
	103	WO	94/25608		Baylor College of Medicine	11-10-1994		
	104	WO	94/26787	A1	The Boead of Trustees of the Leland Stanford Junior University	11-24-1994		
	105	WO	95/22625		Stemmer et al.	08-24-1995		
<i>V</i>	106	WO	95/16027	A1	Borrebaeck	06-15-1995		

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<i>Tdw</i>	107	WO	95/26718		Apollon, Inc.	10-12-1995		
	108	WO	96/11279	A1	US Department of Health and Human Services	04-18-1996		
	109	WO	96/13250	A1	Amgem, Inc.	05-09-1996		
	110	WO	96/23882		The Rockefeller University	08-08-1996		
	111	WO	96/31613		Board of Regents	10-10-1996		
	112	WO	96/33207		Glaxo Group Limited	10-24-1996		
	113	WO	96/37624		MG-PMC, L.L.C.	11-28-1996		
	114	WO	97/04077		Recombinant Biocatalysis, Inc.	02-06-1997		
	115	WO	97/07128	A1	Duke University	02-27-1997		
	116	WO	97/07205		Okkels	02-27-1997		
	117	WO	97/11605	A1	University of Pittsburg of the Commonwealth System of Higher Education	04-03-1997		
	118	WO	97/20078		Stemmer et al.	06-05-1997		
	119	WO	97/25410		Borchert et al	07-17-1997		
	120	WO	97/32987	A1	University of Toronto	09-12-1997		
	121	WO	97/35957	A1	Stemmer	10-02-1997		
	122	WO	97/35966		Maxygen Inc.	10-07-1997		
	123	WO	97/44361		Lam et al.	11-27-1997		
	124	WO	97/48416		Mathur et al.	12-24-1997		
	125	WO	97/48717		Short et al.	12-24-1997		
<i>✓</i>	126	WO	97/48794		Murphy et al.	12-24-1997		

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Ten	127	WO	98/00526		Robertson et al.	01-08-1998		
	128	WO	98/01581		Short	01-15-1998		
	129	WO	98/05764		Novo Nordisk	02-12-1998		
	130	WO	98/05765		Novo Nordisk	02-12-1998		
	131	WO	98/13485		Stemmer et al.	04-02-1998		
	132	WO	98/13487		Stemmer et al.	04-02-1998		
	133	WO	98/24799		Bylina	06-11-1998		
	134	WO	98/27230		Patten et al.	06-25-1998		
	135	WO	98/28416		Bjornvad et al.	07-02-1998		
	136	WO	98/31816		Regents of the University of Minnesota	07-23-1998		
	137	WO	98/31837		Delcardayre et al.	07-23-1998		
	138	WO	98/36080		Affholter et al.	08-20-1998		
	139	WO	98/41622		Borchert et al.	09-24-1998		
	140	WO	98/41623		Borchert et al.	09-24-1998		
	141	WO	98/41653		Vind et al.	09-24-1998		
	142	WO	98/42727		SRI International	10-01-1998		
	143	WO	98/42832		Arnold et al.	10-01-1998		
	144	WO	98/45444		The Regents of the University of California	10-15-1998		
	145	WO	98/48034		Neiboer et al.	10-29-1998		
	146	WO	98/49286		Board of Regents, The University of Texas System	11-05-1998		
✓	147	WO	98/58085		Short et al.	12-23-1998		

Examiner Signature	<i>T. W. W. W. W.</i>	Date Considered	<i>9/9/03</i>
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TW	148	WO	99/07837		Callen	02-18-1999		
	149	WO	99/08539		Kretz	02-25-1999		
	150	WO	99/10472		Short	03-04-1999		
	151	WO	99/10539		Short	03-04-1999		
	152	WO	99/19506		Ixsys, Inc.	04-22-1999		
	154	WO	99/19518		Short	04-22-1999		
	155	WO	99/21979		Apt et al.	05-06-1999		
	156	WO	99/23107		Stemmer et al.	05-14-1999		
	157	WO	99/23236		Diversa Corp. et al.	05-14-1999		
	158	WO	99/29902		Arnold et al.	06-17-1999		
	159	WO	99/41366		The Board of Trustees of the Leland Stanford Junior University	08-19-1999		
	160	WO	99/41368		Maxygen, Inc.	08-19-1999		
	161	WO	99/41369		Maxygen, Inc.	08-19-1999		
	162	WO	99/41383		Maxygen, Inc.	08-19-1999		
	163	WO	99/41402		Maxygen, Inc.	08-19-1999		
	164	WO	99/45154		Short et al.	09-10-1999		
	165	WO	99/57128		Stemmer et al.	11-11-1999		
	166	WO	99/65927		Maxygen, Inc.	12-23-1999		
	167	WO	00/18778		Phylos, Inc.	04-06-2000		
	168	WO	00/42560		Selifonov et al.	07-20-2000		
	169	WO	00/42561		Crameri et al.	07-20-2000		
	170	WO	00/46344		Diversa Corporation	08-10-2000		
✓	171	WO	00/53744		Short et al.	09-14-2000		

Examiner Signature	<i>T. Mennelly</i>	Date Considered	<i>9/9/02</i>
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720	172	WO	00/58517		Short et al.	10-05-2000		
720	173	WO	00/16984		Maxygen, Inc	03-30-2000		
720	174	WO	01/00234		Maxygen, Inc	01-04-2001		

		OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS		
Exami ner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T
TW	175	Affholter et al. (1998) "Directed evolution of proteins and pathways by DNA shuffling." Book of Abstracts, 216th ACS National Meeting, Boston, August 23-27, BIOT-042		
	176	Agren et al. (1997) "Genetically Engineered Nontoxic Vaccine Adjuvant That Combines B Cell Targeting with Immunomodulation by Cholera Toxin A1 Subunit." <i>J. Immunol</i> 158:3936		
	177	Ahmed (1995) <i>J Bacteriology</i> 177(14):3904-3910		
	178	Ahn et al. (1996) "Human cytomegalovirus inhibits antigen presentation by a sequential multistep process." <i>Proc. Natl. Acad. Sci USA</i> 93:10990		
	179	Aizaki et al. (1998) "Full-Length Complementary DNA of Hepatitis C Virus Genome From an Infectious Blood Sample." <i>Hepatology</i> 27:621-627 (1998)		
	180	Aldovini & Young (1991) "Humoral and cell-mediated immune response to live recombinant BCG-HIV vaccines." <i>Nature</i> 351:479-482		
	181	Ambriovic, A. et al. (1997) "Efficacy of Replication-Defective Adenovirus-Vectored Vaccines: Protection Following Intramuscular Injection Is Linked to Promoter Efficiency in Muscle Representative Cells" <i>Virology</i> 238:, 327-335		
	182	Appel and Harris (1998) "Antibody titers in domestic ferret kits and kits to canine distemper virus vaccines." <i>JAVMA</i> 193:332-333		
	183	Atkins et al. (1996) "Manipulation of the Semliki Forest Virus Genome and Its Potential for Vaccine Construction." <i>Mol Biotechnol</i> 5:33-38		
	184	Attridge et al. (1997) "Oral delivery of foreign antigens by attenuated Salmonella: consequences of prior exposure to the vector strain." <i>Vaccine</i> 15(2): 155-162		
	185	Axon (1998) "Treatment of Helicobacter pylori: future therapeutic and prophylactic perspectives." <i>Gut</i> 43(1):S70-3		
	186	Baba et al. , "Identification of CCR6, the Specific Receptor for a Novel Lymphocyte-directed CC Chemokine LARC," <i>The J. of Biolog. Chem.</i> 272 (23): 14893-14898 (1997)		
	187	Barry et al. (1994) "Production of monoclonal antibodies by genetic immunization." <i>Short Technical Reports in Biotechniques</i> 16(4):616		
	188	Barry et al. (1995) "Protection against mycoplasma infection using expression-library immunization." <i>Nature</i> 377:632		

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TOW	189	Bass et al. (1990) "Hormone Phage: An Enrichment Method for Variant Proteins With Altered Binding Properties." <i>Proteins: Structures, Function and Genetics</i> 8:309-314	
	190	Beattie et al. (1990) "Cloning and characterization of T-cell-reactive protein antigens from <i>Listeria monocytogenes</i> ." <i>Infection and Immunity</i> 58(9):2792-2803	
	191	Beck et al., "DNA Sequence Analysis of 66 kb of the Human MHC Class II Region Encoding a Cluster of Genes for Antigen Processing," <i>J. Mol. Biol.</i> 228:433-441 (1992)	
	192	Behrens et al. (1996) "Identification and properties of the RNA-dependent RNA polymerase of hepatitis C virus." <i>EMBO J.</i> 15:12-22	
	193	Benham et al. (1997) "Proteasome activity limits the assembly of HMC class 1 molecules after IFN-gamma stimulation." <i>J. Immunol.</i> 159(2):5896-5904	
	194	Berkhout et al. (1999) "Genetic Instability of Live, Attenuated Human Immunodeficiency Virus Type 1 Vaccine Strains." <i>J. Virology</i> 73(2):1138-1145	
	195	Bernard et al. (1994) "Transcriptional Control and Cell Type Specificity of HPV Gene Expression." <i>Arch Dermatol</i> 130:210	
	196	Bhatnagar et al. (1982) "Immune response to synthetic peptide analogues of hepatitis B surface antigen specific for the a determinant." <i>Proc Nat'l Acad Sci USA</i> 79:4400-4404	
	197	Bielefeldt-Ohmann, H. et al., "Analysis of a recombinant dengue-2 virus-dengue-3 virus hybrid envelope protein expressed in a secretory baculovirus system," <i>J. Gen. Virol.</i> 78:2723-2733 (1997)	
	198	Blachere et al., "Heat Shock Protein-Peptide Complexes, Reconstituted In Vitro, Elicit Peptide-specific Cytotoxic T Lymphocyte Response and Tumor Immunity," <i>J. Exp. Med.</i> 186:1315-22 (1997)	
	199	Blanchard et al. (1998) "Modified vaccinia virus Ankara undergoes limited replication in human cells and lacks several immunomodulatory proteins. . ." <i>J. Gen. Virol</i> 79:1159-1167	
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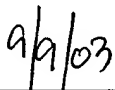
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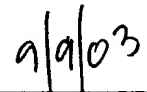
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Examiner Signature		Date Considered	
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Substitute for form 1449A-B/PTO INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)	Complete if Known	
	Application Number	09/724,869
	Filing Date	November 28, 2000
	First Named Inventor	Juha Punnonen
	Group Art Unit	1627
	Examiner Name	Unassigned
	Attorney Docket Number	02-030310US
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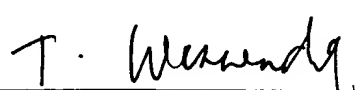
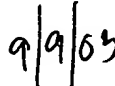
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Examiner Signature	T. Wernick	Date Considered	9/9/03
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